

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
26 May 2005 (26.05.2005)

PCT

(10) International Publication Number
WO 2005/047569 A2

(51) International Patent Classification⁷: **C25C 7/00**

(21) International Application Number:
PCT/US2004/037777

(22) International Filing Date:
1 November 2004 (01.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2335-03 12 November 2003 (12.11.2003) CL

(71) Applicant (for all designated States except US): **3M INNOVATIVE PROPERTIES COMPANY** [US/US];
3M Center, Post Office Box 33427, Saint Paul, Minnesota
55133-3427 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RIBES FERNANDEZ, Mauricio**, [CL/CL]; 3M Chile, Santa Isabel 1001,
Providencia, Santiago (CL). **CONEJEROS OBREQUE,**

Hernan, [CL/CL]; 3M Chile, Santa Isabel 1001, Providencia, Santiago (CL). **CEPEDA ROJAS, Alexander**, [CL/CL]; 3M Chile, Santa Isabel 1001, Providencia, Santiago (CL).

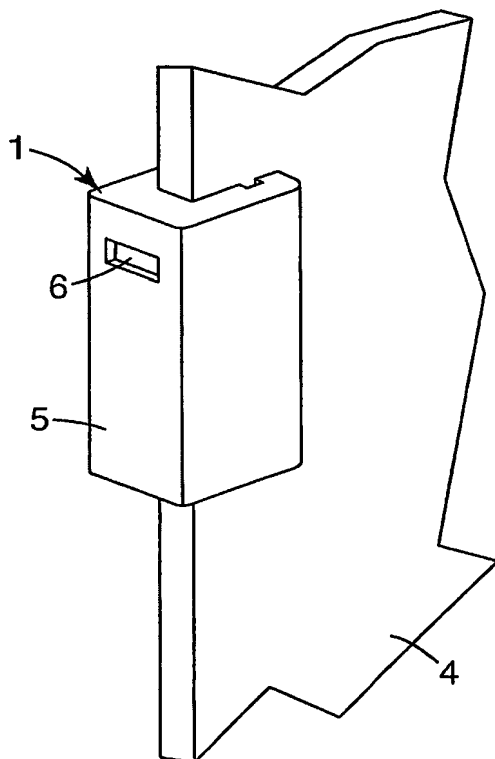
(74) Agents: **BUSS, Melissa, E.** et al.; Post Office Box 33427, Saint Paul, Minnesota 55133-3427 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: **CATHODE EDGE SUPPORT DEVICE FOR A REMOTE IDENTIFIER IN ELECTRO-WINNING AND ELECTRO REFINING PROCESS**



(57) Abstract: A device that supports a remote identifier for permanent cathodes in the electro-winning process. A preferred embodiment of the invention provides a support for a proximity identification device for permanent cathodes that, when interconnected with a remote system, provides for a record of its behavior and position in time of each cathode during its useful life in an electro-winning process.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- *without international search report and to be republished upon receipt of that report*